# Data Reduction and Exploration Techniques to Evaluate Alternative Operation Policies

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Recent advances in computer, database, and modeling technology result in the generation of very large model runs, often containing many hundreds of simulation traces. Searching and exploring these traces for meaningful patterns and significant signals are becoming ever more difficult to accomplish. Although many techniques exist in the literature, it is not clear which ones are applicable to problems encountered by Reclamation managers. Certainly, nothing past basic statistical analyses have made their way into Reclamation's decision-making processes to date.

The major objective is to study the utility of a broad suite of data-reduction techniques to real-world problems on the Colorado River (primarily the development and implementation of the Lower Colorado Multi-Species Conservation Plan and the Interim Surplus Criteria Environmental Impact Statement).

This project has not progressed past the initial scoping meeting because the contract vehicle was not in place until the second quarter of FY 1999, and the principal investigator left the university in June 1999. A new principal investigator has now been identified. We anticipate that the project will begin in February 2000.